

IN THE CLAIMS

1-29. (Canceled)

30. (Cancel)

31. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, wherein ~~including~~ an upper support layer made of an especially air-permeable material is ~~provided~~ which rests on the foam core and/or the pressure cushions and supports the removal of secreted bodily humidity away from the body.

32. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, wherein the foam core and/or the pressure cushions rest on a bottom support layer made of an air-permeable material.

33-35. (Cancel)

36. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, wherein ~~the~~each pressure cushion is configured as a solid cylinder.

37. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, wherein ~~including~~ additional ~~openings are provided~~channels in the foam core outside of the pressure cushion which increase ~~the~~ air permeability.

38-40. (Cancel)

41. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, wherein the foam core consists of one layer.

42. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, wherein the foam core is composed of at least two layers with different degrees of hardness.

43. (Currently Amended) ~~A~~The mattress according to claim ~~30~~60, ~~wherein several pressure cushions are combined into a zone and~~including a control value for adjusting the pressure in saideach zone is adjustable in a continuous manner by means of a controllable valve.

44. (Cancel)

45. (Currently Amended) ~~A~~The mattress according to claims ~~30~~32, wherein a system of pressure cushions is connected with an air pump composed of elastic elements and valves, which pump is arranged beneath the mattress, is integrated in the bottom support layer or arranged in the foam core, so that an air conveying process is enabled as a result of a shifting of weight of the person lying on the mattress.

46. (Currently Amended) ~~A~~The mattress according to claim 45, wherein the air pump cooperates with a pressure control device for compensating a pressure loss as a result of a leakage loss.

47. (Currently Amended) ~~A~~The mattress according to claim 45, wherein the air pump cooperates with a pressure control device for building up a purposeful increase in pressure in the pressure cushions.

48-51. (Cancel)

52. (Currently Amended) ~~A~~The mattress according to claim ~~51~~60, wherein at least one pressure cushion is arranged in a zone with high pressure hardness as lordosis support.

53. (Currently Amended) ~~A~~The mattress according to claim ~~51~~60, wherein ~~the~~a lying surface of said mattress is subdivided into seven zones for achieving ~~the highest amount of~~maximum comfort.

54. (Cancel)

55. (Currently Amended) ~~A~~The mattress according to claim ~~54~~53, wherein fresh air can be supplied for overall cooling and/or removal of humidity, or warm air for overall heating of the mattress through the openings which are arranged parallel to the lying surface and penetrate the width of the mattress.

56. (Currently Amended) ~~A~~The mattress according to claim ~~54~~55, ~~wherein~~including a blower ~~is provided for conveying the air.~~

57. (Currently Amended) ~~A~~The mattress according to claim ~~160~~,
~~wherein~~including sound-insulating material ~~is provided in the~~ inflow and
outflow regions ~~of the~~each pressure cushion for reducing ~~the~~ flow noises
during a pressure compensation as a result of a change in the position of
~~the~~a person lying on the mattress.

58. (Currently Amended) ~~A~~The mattress according to claim ~~160~~,
wherein ~~the system overpressure in the~~each pressure cushion lies
between 0.1 bar and 0.6 bar.

59. (Currently Amended) ~~A~~The mattress according to claim 58, wherein
said ~~system overpressure~~ is between 0.15 and 0.30 bar.

60. (New) An air-permeable mattress that provides great comfort and
low weight, comprising

an elongated foam core that defines a longitudinal axis and
opposite lateral sides, a plurality of first transverse channels that extend
in parallel between said opposite lateral sides, and a plurality of second
transverse channels that extend in parallel between said opposite lateral
sides,

a plurality of air-filled pressure cushions respectively located in said
plurality of first transverse channels, and

a plurality of connecting tubes interconnecting multiple pressure
cushions to provide zones in said foam core having equal predetermined

air pressures, said second transverse channels facilitating removal of humidity from said foam core.